

SOLOLUBE

Electromechanical Lubricator

user manual



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Sololube Installation and Start-Up

General safety instructions

Before installing and starting up the Sololube lubricator on the machine, these operating instructions must be read through carefully by all persons entrusted with the assembly, installation, maintenance and operation of the system!

Proper, trouble-free functioning of the Sololube lubricating unit is only ensured by using the recommended and tested lubricants of Gruetzner GmbH and by following the installation, operating and maintenance instructions. Failure to follow these instructions releases Gruetzner GmbH from any liability whatsoever for consequential loss or damage.

Before installing and starting up the Sololube lubricating unit, both the lubricating point and any extensions and grease lines must be greased through or pre-greased with the appropriate lubricant using a grease gun.

IMPORTANT

Only use original Sololube spare parts (cartridges/threaded couplings) and Sololube batteries. Other batteries can irreparably damage the electronics.

Preparation

The Sololube lubricator consists of a drive unit, a lubricant cartridge, a transparent protective cover, a set of batteries and an adapter (3/8" => 1/4"). Before starting the installation, please check that all the parts are included in the delivery.

If you have opted to fill the Sololube lubricant cartridge yourself, please follow the instructions given below before starting the installation.



Please only use lubricants tested and approved by Gruetzner GmbH. To fill the lubricant cartridge, you will need a standard grease gun and the refill nipple SAT3012. An ideal result is achieved if you rotate the cartridge while it is being filled.



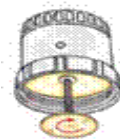
Position the pressure plate

The pressure plate of the Sololube lubricating unit must be placed in the correct position before starting.

1) Carefully turn the pressure plate clockwise up to the limit stop.

2) Then, turn the pressure plate between one half and one whole turn anticlockwise up to the start position (see label on plate).

3) Screw together the prefilled lubricant cartridge and the drive unit together. Ensure that both parts are securely connected. If done properly, a small quantity of lubricant should emerge from the outlet.

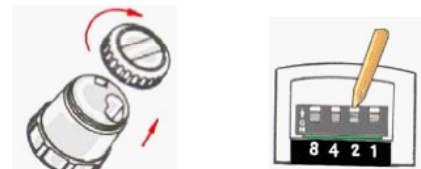


WARNING

If the pressure plate does not sit on the green piston when the cartridge and drive unit are screwed together, no lubricant will be pumped.

Start the Sololube – make settings

The Sololube can operate for up to one year (1-12 months); the setting is made at the drive unit using DIP switches. Please unscrew the cover of the drive unit and refer to Table 1 (see page 4) for the required running period. By switching the dip switch to the „ON“ direction: the Sololube is now set for the relevant running period and is ready to start.

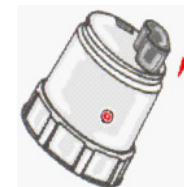


IMPORTANT

Please do not insert the battery until AFTER you have switched the dip switch.

If any subsequent changes are made to the running time setting, the battery must always be removed from the unit before changing the DIP positions. For the changes to become effective (memory is deleted), the battery must be removed for at least 15 seconds.

After switching the DIP switch, insert the battery in the battery compartment provided and screw the cover back onto the drive unit. Pull the transparent protective cover over the drive unit of the Sololube lubricating unit to protect it from dust, dirt and moisture.



After inserting the battery, the Sololube responds as follows:

SOLOLUBE BASIC:

The drive unit's motor starts up briefly, the red LED lights up for 10 seconds. The Sololube then switches to operating mode and operates according to the setting made. The Basic model only has one red LED, which lights up when it is started and then only if any errors or faults occur. (Empty, excess pressure, voltage problems)



SOLOLUBE Xtra150 & SOLOLUBE Xtra250:

Unlike the Basic model, the Xtra150 and the Xtra250 have a red and a green LED.

After the battery is inserted, the green LED flashes 5 times and the Sololube drive performs an automatic test run (one turn: green LED flashes quickly while the motor is running).

The Sololube then switches to operating mode and operates according to the setting made.

In operating mode, the green LED flashes briefly every 15 sec. (=everything okay).

The red LED only flashes if errors or faults occur (empty, excess pressure, voltage problems)



green LED flashes 5 times



operating mode:
green LED every 15 sec.

DIP switch setting for lubrication cycle

Different lubricant delivery rates can be implemented depending on the setting of the DIP switches.

setting month	DIP switch	hours dispensing cycle	lubricant/cycle (ml)		lubricant/day (ml)		lubricant/week (ml)		lubricant/month (ml)	
			150	250	150	250	150	250	150	250
1	1	2	0,417 ml 0,694 ml		5,00	8,33	35,00	58,33	150	250
2	2	4			2,50	4,16	17,50	29,16	75	125
3	1+2	6			1,67	2,77	11,67	19,44	50	83,33
4	4	8			1,25	2,08	8,75	14,58	37,50	62,50
5	1+4	10			1,00	1,66	7,00	11,66	30	50
6	2+4	12			0,83	1,38	5,83	9,72	25	41,66
7	1+2+4	14			0,71	1,19	5,00	8,33	21,43	35,71
8	8	16			0,63	1,04	4,38	7,29	18,75	31,25
9	1+8	18			0,56	0,92	3,89	6,48	16,67	27,77
10	2+8	20			0,50	0,83	3,50	5,83	15	25
11	1+2+8	22			0,45	0,75	3,18	5,30	13,64	22,72
12	4+8	24			0,42	0,69	2,92	4,86	12,50	20,83

Table 1

IMPORTANT

Please do not insert the battery until AFTER you have switched the dip switch on.

If any subsequent changes are made to the running time setting, the battery must always be removed from the unit before changing the DIP positions. For the changes to become effective (memory is deleted), the battery must be removed for at least 15 seconds.

DIP switch - further information

Apart from the running period settings (1-12 months), Sololube also allows for other DIP switch positions. Depending on the model type, additional tests can be performed or the withdrawal of the pressure plate can be initiated.

For correct functioning of the Sololube dispenser, it is not absolutely necessary to perform the additional tests!

SOLOLUBE BASIC additional DIP switch positions:

BACK: The switch positions 1+4+8 and 2+4+8 allow the pressure plate to return automatically.

Alternatively, the spindle can also be wound back by hand.

TEST: If you switch DIP switches 1+2+4+8, the Sololube Basic starts a test run. **Important:** This test function is performed continuously until the battery is removed. If the test run is not interrupted, the Sololube will completely empty the grease cartridge!

SOLOLUBE Xtra150 & 250 additional DIP switch positions:

BACK: Switch positions 1+4+8 allow the pressure plate to return automatically.

Alternatively, the spindle can also be wound back by hand.

TEST1: In switch position 2+4+8 the pressure plate is turned a half-turn clockwise (green LED flashes) and anticlockwise (red LED flashes). The test run is then ended, the green LED lights up. Please then remove the battery.

TEST2: If switches 1+2+4+8 are switched, the pressure plate switches to idle (no load). The green LED flashes while the motor is running.

Important: This test is performed until the battery is removed.

Faults/error messages

Checking the function of the Sololube is easy:

SOLOLUBE BASIC: no LED signal = everything okay
LED flashes red (every 5s) = fault indication

SOLOLUBE Xtra: LED green (every 15s) = everything okay
LED red (every 5s) = fault indication

A fault exists if the red LED flashes every 5 seconds. Possible errors or faults are:

- Lubricant cartridge is empty
- Back pressure is too high (>7.5 bar)
- Low battery voltage

Lubricant cartridge is empty:

Please replace the empty lubricant cartridge with an original Sololube cartridge replacement. Each time the cartridge is changed, the battery must be changed too. Before changing the cartridge, please turn the spindle back into its original position by hand and then following the instructions on page 2 => Positioning the pressure plate

Back pressure is too high

The drive unit is stopped if the pressure increases to > 7.5 bar. Sololube displays a fault (LED flashes red).

Cause: The lubricating point could be blocked, or the hose is too long and/or the grease is too stiff/hard.

Battery voltage too low:

Please replace the battery. Only use original Sololube batteries. Change with each new lubricant cartridge!

Sololube - technical data

Product	Automatic Lubricator for grease and oil		
Model	Sololube Basic	Sololube Xtra150	Sololube Xtra250
Drive	electro-mechanical (re-usable)		
operating pressure	max. 7,5 bar/110 psi		
setting	1-12 months		
lubricant volume	150 ml	150 ml	250 ml
dispensing time	see Table 1		
lubricant	grease (NLGI 2) and oil		
operating temperature	-20°C bis +60°C		
power supply	6,0 V (Li-Batterie)		
weight (without lubricant)	570 g		698 g
weight (incl. lubricant)	~ 710 g		~ 925 g
dimensions H x Ø	16,6 cm x 8,9 cm		19,6 cm x 10,25 cm
function control	LED red	LED green & red	

Table 2

Sololube - additional notes

- Before using the Sololube, please ensure that the grease ducts in the bearing or in the bearing housing are continuously filled. Please use a grease gun to grease both the lubricating point and any grease ducts before starting up the Sololube lubricator.

- Connection lines (6mm internal diameter) may not be longer than 2.5m. Avoid line resistances and constrictions.

- The Sololube may only be used to supply one lubricating point.

- The user must check the function of the Sololube regularly.

Proper, trouble-free functioning of the Sololube Basic, Xtra150 and Xtra250 lubricators is only ensured by using the recommended lubricants of the original Sololube accessories product range and by following the assembly, installation, operating and maintenance instructions. Failure to follow with these instructions releases Gruetzner GmbH from any liability whatsoever.

If the purchaser/customer provides or explicitly wishes a lubricant which has not yet been run through any tests for suitability with regard to the Sololube lubricating system, for use in the Sololube lubricating system, this is done at their own risk and on their own responsibility. The products are subjected to very stringent production controls and fulfil our won factory specifications; however, due to the large number of influencing factors, we are unable to provide any warranty for their reliability in each individual case. We therefore explicitly recommend that you perform practical tests. All liability excluded.